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PATENT
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IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Dominique Yves Joel BURNOUF et al. Conf. 3024

Application No. 10/561,867 Group 1656

Filed July 6, 2006 Examiner A. Kim

PROTEIN CRYSTAL COMPRISING THE PROCESSIVITY CLAMP FACTOR OF
DNA POLYMERASE AND A LIGAND, AND ITS USES

RESPONSE TO NOTICE TO COMPLY WITH SEQUENCE RULES
PURSUANT TO 37 C.F.R. § 1.821-1.825

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

December 22, 2008

Sir:

In response the Notice to Comply with Requirements for Patent Applications Containing Nucleotide and/or Amino Acid Sequence Disclosures dated November 20, 2008, Applicants herein provide the following amendments and remarks.

Amendments to the Specification begin on page 2 of this paper.

Remarks begin on page 3 of this paper.

An **Appendix** is attached following the signature page of this paper.

AMENDMENTS TO THE SPECIFICATION:

In the Sequence Listing:

Please replace the Sequence Listing of record with the attached substitute Sequence listing (in paper and computer readable form (CRF)).

REMARKS

The foregoing amendments are presented to place the application in compliance with the Sequence Rules under 37 C.F.R. §§ 1.821-1.825.

Enclosed herewith is a substitute Sequence Listing in both paper and computer readable form (CRF) as required by 37 C.F.R. § 1.821(c) and (e). The substitute Sequence Listing corrects the errors noted in the Notice to Comply dated November 20, 2008. The Sequence Listing was also revised to update the current application information per US practice. The specification has also been amended to insert the attached paper copy and CRF of the Sequence Listing and/or to replace the Sequence Listing of record.

In particular, as indicated in the validation report, <223> of SEQ ID NO: 2 has been changed to "synthetic peptide".

Further, SEQ ID NO: 7 has been revised. Specifically, <213> of SEQ ID NO: 7 was revised to "artificial sequence" and to reflect the correct number of amino acids by adding two more amino acids at the end to make for a total of 210. The specification describes the binding site of the β -clamp of *E. coli* DNA polymerase III, i.e., the amino acids interacting with the P16 peptide as included in the region delimited by the amino acids at the positions 155 to 364 which is a total of 210 amino acids (SEQ ID NO: 7). See, for

instance, the discussion of such in the disclosure, in Table 2 on page 20.

Thus, there is support in the disclosure for SEQ ID NO: 7, which corresponds to the binding site of the β -clamp of *E. coli* DNA polymerase III.

Support for these revisions can be found in the sequences of the originally filed application. No new matter has been added. Accordingly, the submission complies with 37 C.F.R. § 1.821(g).

The content of the paper and computer readable copies of the Sequence Listing are the same, and thus this submission complies with 37 C.F.R. § 1.821(c) and (e).

The attached Sequence Listing was run through the USPTO Checker software (Version 4.4.0) (October 25, 2005) and no errors were found.

In view of the foregoing, it is believed that each requirement set forth in the Notice has been satisfied, and that the application is now in compliance with the Sequence Rules under 37 C.F.R. §§ 1.821-1.825.

Favorable action on the merits is respectfully
requested.

Respectfully submitted,
YOUNG & THOMPSON

/Jay F. Williams/
Jay F. Williams, Reg. No. 48,036
209 Madison Street Suite 500
Alexandria, VA 22314
Telephone (703) 521-2297
Telefax (703) 685-0573
(703) 979-4709

JFW/ml

APPENDIX:

The Appendix includes the following item(s):

- Sequence Listing in paper and computer readable form